

### **REMARKS**

Applicants appreciate the Examiner's attention to the above referenced application. Claims 1-17 were rejected. Claims 1, 7, and 13 have been amended. Claims 2, 3, 5, 8, 9, 11, and 14-16 have been canceled. Claims 18-23 have been added. Claims 1, 4, 6, 7, 10, 12, 13, and 17-23 are now pending, of which claims 1, 7, and 13 are independent.

#### **35 USC § 101 Rejection of the Claims**

Claims 7-12 were rejected under 35 USC § 101 as being indicated to be directed to non-statutory subject matter. Applicants have amended claim 7 in response to this rejection and believe that remaining claims 7, 10, and 12 are now in condition for allowance. Applicants respectfully request that remaining claims 7, 10, and 12 be allowed to pass to issuance.

#### **35 USC § 103 Rejection of the Claims**

Claims 1-17 were rejected under 35 USC § 103(a) as being unpatentable over Melo et al. (Viewpoint Independent Detection of Vehicle Trajectories and Lane Geometry) in view of Renno et al. (Learning Surveillance Tracking Models for the Self Calibrated Ground Plane). Applicants have amended independent claims 1, 7, and 13 and believe that claims 1, 7, and 13 and dependent claims 4, 6, 10, 12, and 17-23 are distinguishable over the combination of Melo and Renno. For example, Applicants respectfully submit that the combination of Melo and Renno does not teach producing a filtered set of objects and “using the filtered set of objects to repeat estimating the 3D transformation parameters and to repeat predicting the heights of the objects.” Furthermore, neither Melo nor Renno teaches “estimating a height map for objects moving on a road of the road map.” Neither reference mentions a height map, and estimation of “a height map for objects moving on a road of the road map” is not taught by the simple prediction of heights of the objects. Because all limitations of the independent claims 1, 7 and 13 are not taught, Applicants respectfully request that remaining claims 1, 4, 6, 7, 10, 12, 13, and 17-23 be allowed to pass to issuance.

**CONCLUSION**

Applicant respectfully requests reconsideration in view of the remarks and amendments set forth above. If the Examiner has any questions, the Examiner is encouraged to contact the undersigned at (512) 732-1303. Please charge any shortage of fees in connection with the filing of this paper, including extension of time fees, to Deposit Account 50-0221 and please credit any excess fees to such account.

Respectfully submitted,

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